

Title (en)

DISPLAY DEVICE AND TILED DISPLAY DEVICE

Title (de)

ANZEIGEVORRICHTUNG UND MOSAIKANZEIGEVORRICHTUNG

Title (fr)

DISPOSITIF D'AFFICHAGE ET DISPOSITIF D'AFFICHAGE EN MOSAÏQUE

Publication

EP 4390905 A1 20240626 (EN)

Application

EP 23214805 A 20231207

Priority

KR 20220183633 A 20221223

Abstract (en)

A display device includes a plurality of pixels and each of the pixels comprising a first sub-pixels, a second sub-pixel and a third sub-pixel, wherein each of the first sub-pixels including a first light emitting element of a first color, and at least one of the first sub-pixels includes a first circuit unit configured to control a supply period of a driving current in response to a first data signal supplied from a first data line, a second circuit unit configured to supply the driving current to the first light emitting element in response to a second data signal supplied from a second data line, and a sensing transistor connected between a first electrode of the first light emitting element and the second data line, and having a gate electrode connected to a sensing line.

IPC 8 full level

G09G 3/20 (2006.01); **G09G 3/32** (2016.01); **G09G 3/3233** (2016.01); **G09G 3/3291** (2016.01); **H10K 59/00** (2023.01)

CPC (source: EP US)

G09G 3/2003 (2013.01 - EP); **G09G 3/2014** (2013.01 - EP); **G09G 3/32** (2013.01 - EP US); **H01L 25/0753** (2013.01 - EP); **H01L 25/167** (2013.01 - EP); **G09G 3/2081** (2013.01 - EP); **G09G 3/3233** (2013.01 - EP); **G09G 3/3291** (2013.01 - EP); **G09G 2300/026** (2013.01 - EP US); **G09G 2300/0452** (2013.01 - EP); **G09G 2300/0819** (2013.01 - EP); **G09G 2300/0852** (2013.01 - EP); **G09G 2300/0861** (2013.01 - EP); **G09G 2310/0259** (2013.01 - EP); **G09G 2310/027** (2013.01 - EP); **G09G 2310/0275** (2013.01 - US); **G09G 2310/066** (2013.01 - EP); **G09G 2310/08** (2013.01 - US); **G09G 2320/0214** (2013.01 - EP); **G09G 2320/0223** (2013.01 - EP); **G09G 2320/0233** (2013.01 - US); **G09G 2320/0295** (2013.01 - EP); **H01L 33/62** (2013.01 - EP)

Citation (search report)

- [XYI] TW I719815 B 20210221 - AU OPTRONICS CORP [TW]
- [XAY] US 2019371231 A1 20191205 - KIM JINHO [KR], et al
- [Y] CN 111179853 B 20210330
- [Y] WO 2022059933 A1 20220324 - SAMSUNG ELECTRONICS CO LTD [KR], et al & US 2023178012 A1 20230608 - KIM JINHO [KR], et al

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 23214805 A 20231207; CN 202311603721 A 20231127; US 202318473879 A 20230925